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Catalog

ACADEMIC COURSEWARE EXCHANGE

Spring 1986

Dear Educator,

Welcome to the first Kinko's Academic Courseware Exchange Catalog. For the first time, here is access to a vast and ever expanding reservoir of innovative courseware for the Apple II and Macintosh...all developed by educators exclusively for academic use.

The purpose of the Academic Courseware Exchange is to promote the exchange of computing solutions from instructor to student, campus to campus, across the nation. To facilitate this, courseware costs are kept low, between $7 and $30, right in line with textbook budgets. Now you can freely integrate courseware into your curriculum without financial burden to you or your students.

With the Academic Courseware Exchange Catalog, you can specify courseware as easily as you specify textbooks. Small orders are mailed directly to the purchaser. If you would like to require or recommend a piece of courseware for your class, just let your local Kinko's know how many students you expect. Then tell your students that their courseware is available at Kinko's, and we do the rest. If there is no Kinko's near you, we will arrange to deliver the courseware through your bookstore or campus computing center.

Through the Academic Courseware Exchange, you can share the developments of your colleagues, far and near. If you also develop software for the Macintosh or the Apple II, now is the time to share it with the greater academic community. Kinko's handles all production, distribution and marketing, and you earn royalties on each piece of courseware sold, to help subsidize your development costs.

The courseware in the Academic Courseware Exchange is not copy protected, although most programs are protected under the copyright law. Kinko's and Apple Computer believe copy protection hinders the honest user. Copy protection also raises the cost of software development, and would interfere with the Academic Courseware Exchange's policy of supplying only low-cost software for educational use. We supply high quality courseware at very reasonable prices, and feel that this policy counters any temptation one may have to make unauthorized copies.

We are very enthusiastic about the Academic Courseware Exchange, and hope you will find this catalog useful. Periodic updates to the catalog will be available at your local Kinko's. The entire catalog will be published twice a year. We encourage developers to participate in the Academic Courseware Exchange and we welcome any comments.

Sincerely,

Keith Lawrenz
Managing Director
Kinko's Academic Courseware Exchange

THE ACADEMIC COURSEWARE EXCHANGE...

CATALOG

4141 State Street
Santa Barbara, CA 93110

CATALOG

MACINTOSH

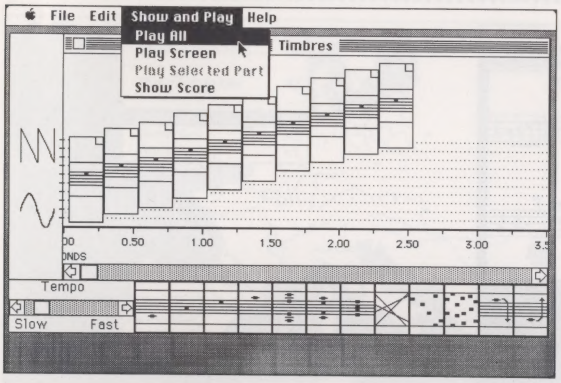
Appletones

Application
Version 2.0
Music

By John R. Meier: Developer
Jon Appleton (Music Dept.): Concept
Courseware Development Group
Dartmouth College

System Requirements
Macintosh™ computer, minimum 128K, with Finder, any version.

Description
Tool for teaching the importance of repetition, silence, changes in volume, and timbre in the composition and arrangement of music.



Appletones is used in introductory music composition courses. It teaches the importance of four elements in the composition and arrangement of music: repetition, silence, changes in volume, and timbre. Twelve predefined sounds can be arranged and their duration, timbre, and volume changed. The user composes a piece by dragging any of the available sounds from a palette onto a staff. The vertical position of the sound determines its timbre, the width of the sound determines its duration, and its height determines its volume. Any sound may be changed in any of these parameters at any time, and cut-and-paste editing is also available. The piece may be played on the Macintosh's built-in speaker or saved to disk for later retrieval. The score may also be printed on an Imagewriter.

The application Mozart (see next entry) is also included on this disk.

Price
$12.90

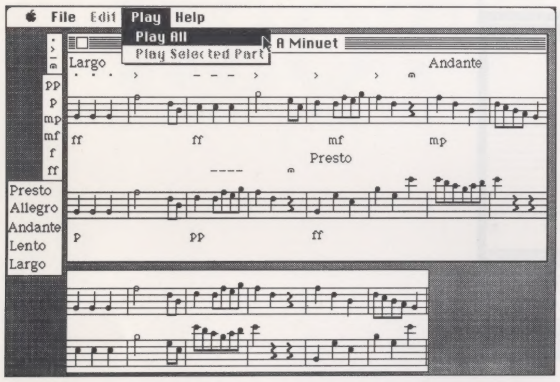
Mozart

Application
Version 2.0
Music

By John R. Meier: Developer
Jon Appleton (Dept. of Music): Concept
Courseware Development Group
Dartmouth College

System Requirements
Macintosh computer, minimum 128K,with Finder, any version.

Description
Mozart lets you play the "musical dice game," experimenting with musical arrangement, tempo, articulation and dynamics.



Mozart is used in introductory music composition courses. It is intended to give the music student with no formal experience in composition the opportunity to experiment with musical arrangement, tempo, articulation, and dynamics. It allows the user to compose a minuet from any of six predefined two-measure-long phrases. By dragging items from any of four palettes onto the staff, the user controls the arrangement of the phrases, as well as tempo, articulation, and dynamics. The minuet may be played on the Macintosh's built-in speaker or saved to disk for later retrieval. The score may be printed on an ImageWriter.

The application Appletones (see previous entry) is also included on this disk.

Price
$12.90

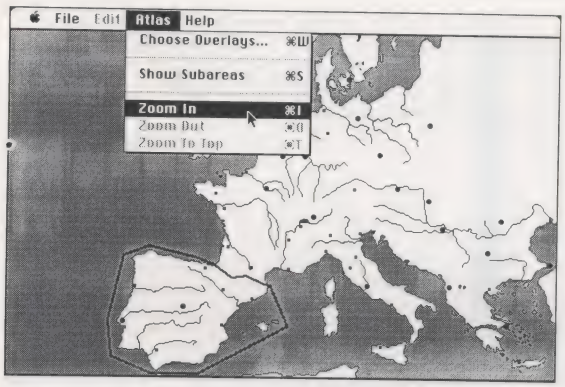
Atlas and Overlay

Tool
Version 0.22
General

By Carl Spitzer: Developer
L. Spitzer, D. Spitzer (Hist. Dept.): Concept
Courseware Development Group
Dartmouth College

System Requirements
Macintosh computer, minimum 128K, with Finder, any version.

Description
A general authoring tool to create and use atlases of images.



Atlas can be used in any field to teach by means of a pictorial atlas on the Macintosh. The user creates a set of images (with MacPaint™, a video digitizer, or other means) on the desired subject (for instance, European History or anatomy) and gives the resulting dataset to the students on a Macintosh diskette with the Atlas program.

When Atlas is run with that dataset, it allows the user to view the images on the Macintosh, specify a set of overlays to view (such as rivers, towns, mountains, and roads, or nervous system, circulatory system, and skeleton); and zoom in and out to levels of greater or lesser detail, with the overlay set remaining intact.

This distribution disk contains Atlas and a sample atlas of geographic maps, Western Europe, and the Overlay Program. Overlay aligns MacPaint pictures on top of each other, in preparation for use in Atlas, which can show several images on top of each other. One uses it before creating a dataset with Atlas.

Price
$6.90

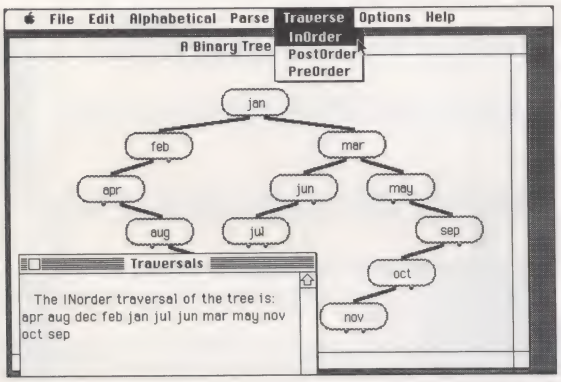
Binary Trees

Application
Version 2.2
Computer Science

By John Glenn: Developer
Mark Sherman (Math/C.S.): Concept
Courseware Development Group
Dartmouth College

System Requirements
Macintosh computer, minimum 128K, with Finder, any version.

Description
A program that allows you to experiment with binary trees in a graphical, interactive fashion.



This program is used in computer science courses to allow the user to experiment with binary trees, a normally abstract concept, in an interactive fashion. It offers practice with binary trees used as an alphabetically sorted list and binary trees used as a "parse tree" for arithmetical expressions.

Price
$6.90

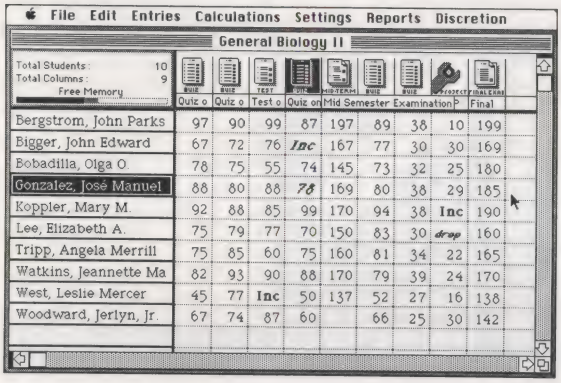
Brainchild Grade

Application
Version 1.0
Student Grading

By Evan E. Corbett and Sean V. Rome
Brainchild Corporation

System Requirements
Macintosh computer, minimum 512K, with Finder, version 4.1.

Description
Brainchild Grade is an electronic gradebook designed for educators at all grade levels.



Brainchild Grade is an electronic gradebook for the Macintosh. Designed for educators at all grade levels, Grade will completely replace the conventional paper-based gradebook. Grade is a full featured integration of spreadsheet, database, and report generation software.

Grade's strengths are in its speed, power, flexibility and ease of use. Its graphic user interface is modeled after the familiar paper gradebook. Grade is capable of storing data on as many as 300 students with up to 100 scores each. In addition to being able to calculate grades instantly, Grade also allows the user to gather statistical information on score distribution, create graphs of class performance and estimate a curve. It allows the user to experiment with variable weighting systems and cutoff points. Grade can also generate reports on individual student performance, and incomplete or missing scores.

Price
$24.80

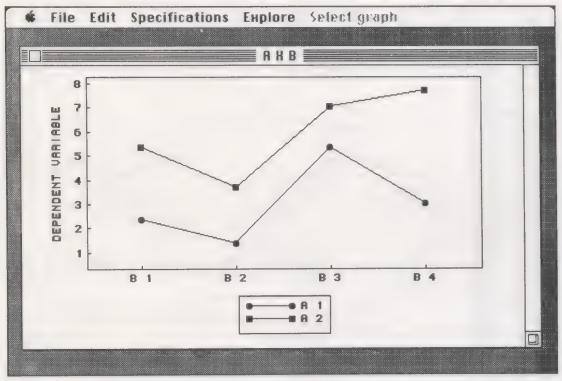
CLR Anova

Application
Student Version
Statistics, Psychology, Media and Education.

By David M. Lane and Brian D. Kluger
Clear Lake Research

System Requirements
Macintosh computer, minimum 512K, with Finder, any version.

Description
Analysis of variance program that plots interaction and computes a variety of follow-up tests. Repeated measures and unequal n analyses can be done.



The student version of CLR Anova is limited to one-factor and two-factor designs. Plots of interactions can be drawn simply by clicking the interaction on the Analysis of Variance Summary Table and choosing "Graph means" from a menu. Marginal means, pairwise comparisons (Neuman-Keuls, Duncan, Tukey hsd and t-tests), simple effects and specific contrasts (planned or unplanned) among means can be computed just as easily. Repeated-measures designs and designs with unequal cell n frequencies can be analyzed.

Two editors are included to make data entry easy. One is a desk accessory that allows data to be entered or modified even after CLR Anova has been started. This makes data entry interactive and especially convenient. Data entered using MacWrite™, Microsoft File™, Multiplan™, Excel™, and MacTerminal™ can also be analyzed. The Macintosh interface with windows, menus and dialog boxes is used throughout. An entire analysis of variance with many follow-up tests can be done with only a few key strokes, mouse clicks and choices from menus. Several sample data files are included. Advanced features include the epsilon correction for possible violations of multi-sample sphericity and choices of error terms for some simple effects and specific contrasts among means.

Price
$23.95

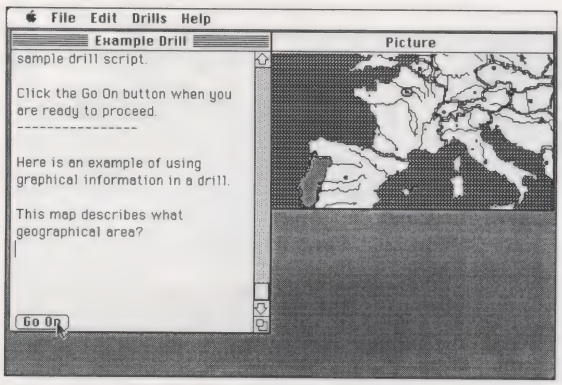
Drill

Tool
Version 2.0
General

By S. Rogers, C. Spitzer & W. Greenburg
R. Blake, B. Duncan & P. Bien: Concept
Courseware Development Group
Dartmouth College

System Requirements
Macintosh computer, minimum 128K, with Finder, any version.

Description
A general question and answer drill program with text and pictures, modeless help and multiple windows. Drill scripts are created with any word processor.



Drill can be used in almost any course in which text and/or picture-based question-and-answer drills are useful.

It handles drills written using the standard Macintosh character set: Subjects in many different academic disciplines may be addressed using English, French, Spanish, German, and other Western European languages.

The instructor writes the drill script in MacWrite and draws the pictures in MacPaint. Additional aid files may be written as desired. When Drill is run and the student selects a new drill, he or she is given instructions and questions in a text window, where typed answers also appear. At any time the student may bring out any of the aid windows, and scroll through them and the drill window to find what is needed. Drills may optionally display portions of MacPaint documents in their own "picture" window. The distribution disk includes:

Drill—the drill program
Read This Drill—summary of the distribution disk
Example Drill—a very short sample drill script
Creating a Drill—a drill script about writing drills
Ancillary files—for use by the above drills

Price
$6.90

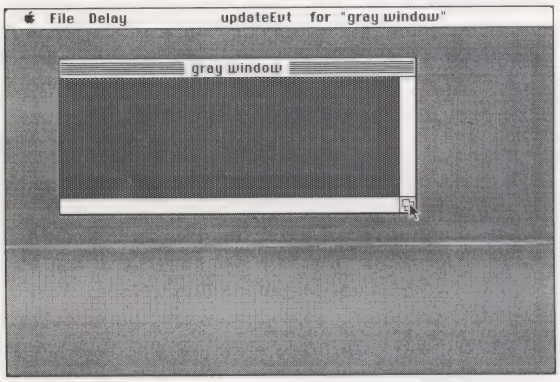
Event Tutor

Application
Version 1.1
Macintosh Programming

By S. Maker and B. Meike
Courseware Development Group
Dartmouth College

System Requirements
Macintosh computer, minimum 128K, with Finder, any version.

Description
Program for learning about events, a concept important in Macintosh programming.



Event Tutor helps Macintosh programmers learn about "events." Each time an event is received by the program, the Macintosh beeps, and shows in the menu bar the event name, the window involved (if any), and a bullet if it is a "system" event (not to be handled by the programmer).

When the program starts, it delays for two seconds between events; the delay is alterable with the "Delay" menu.

The application Skel (see next entry) is also included on this disk.

Price
$6.90

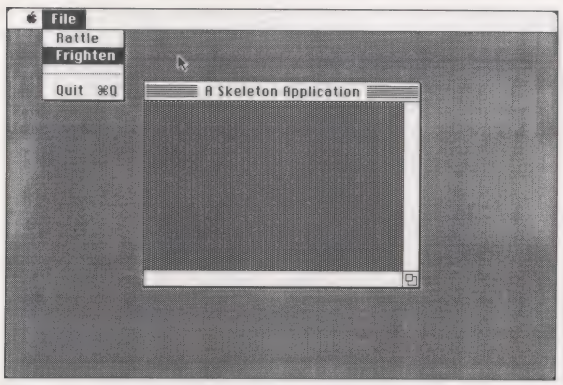
Skel

Tool
Version 2.4
Macintosh Programming

By Steve Maker
Courseware Develpment Group
Dartmouth College

System Requirements
Macintosh computer, minimum 128K, with Finder, any version.

Description
Skel is a skeleton Macintosh program written in Lisa Pascal to teach Macintosh development. The purpose is to provide a source code that can be studied and modified.



Skel is used for teaching Macintosh development. It is a skeleton demonstration Macintosh program written in Lisa Pascal. Its purpose is to illustrate in a clear fashion, isolated from any particular application, the basic code for handling a simple Macintosh user interface. It strives to be correct as far as it goes, without many short-cuts that would lead to trouble in larger applications.

To use Skel, study the source code. Modify it to test your knowledge. Steal working pieces of code for your own programs. Beat on it. Subject it to cruel and unusual experiments. Pay heed to its warnings. More study instructions are given in its source code. The program includes:

Skel—the running program, showing the Skel icon
Bone—an empty file showing the Bone icon
Skel. TEXT—the Resource Definition file
SkelX. TEXT—an EXEC file to recreate it

The application Event Tutor (see previous entry) is also on this disk.

Price
$6.90

FunPlot: Function Plotter and Calculus

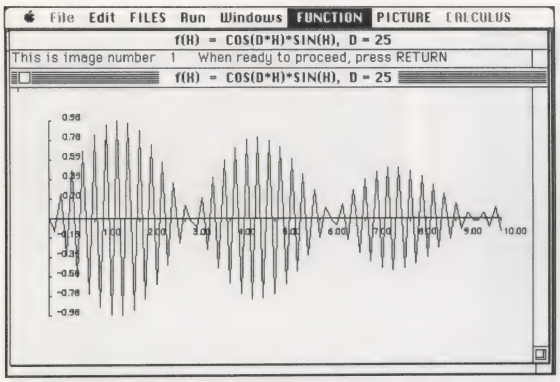
Application	By Walter Zimmermann
3/1/86	Mathematics Department
Math, Engineering and Math Sciences	University of the Pacific

System Requirements

Macintosh computer, minimum 512K, with Finder, any version.

Description

FunPlot plots functions and illustrates calculus problems. Images can be printed, and can be saved and used with MacPaint or MacWrite.



FunPlot is an interactive program designed to be used by students to plot functions or to represent calculus problems graphically, and by faculty to produce graphs for written materials or for lecture demonstrations in mathematics, engineering and other fields. Functions are entered using a form of RPN notations, similar to the system used on Hewlett-Packard calculators. The program will plot and tabulate functions and families of functions with up to three parameters.

FunPlot will display the derivative and anti-derivative, compute definite integrals, display Taylor polynomials, and illustrate the definition of the derivative and the definite integral by a sequence of images. Images produced are indexed and can be recalled. Images can be saved on disk for later use and displayed as a sequence or in rapid succession to create an effect of animation. Output can be directed to the printer. Images can also be transferred to MacPaint for editing and can be incorporated into written documents using MacWrite.

Price

$15.00

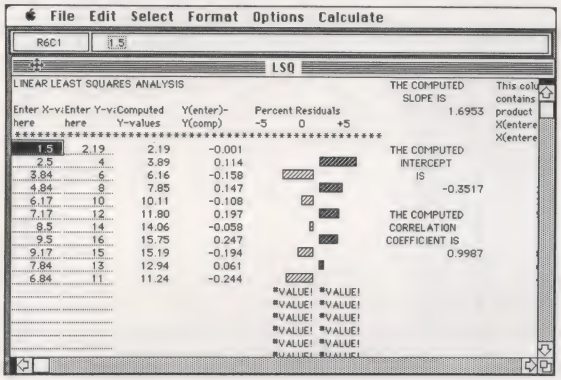
General Chemistry, Multiplan Templates

Templates
Version 1.0
Chemistry

By Allan L. Smith
Chemistry Department
Drexel University

System Requirements
Macintosh computer, minimum 128K, with Microsoft Multiplan.

Description
Four Multiplan templates: percentage composition, equilibrium concentrations, acid-base titration curves, and linear regression.



The "MolMass" template calculates the molecular weight and the percentage composition of any compound. Drexel students build this template during the first two weeks of general chemistry, and it provides an excellent introduction to the capabilities of a spreadsheet for handling tabular data, in this case the periodic table.

"EquilCalc" calculates the equilibrium concentrations of the general chemical reaction aA + bB = rR + sS, given the initial concentrations and the equilibrium constant. The concepts of reaction quotient and reaction extent are used.

"AcidBaseTitr" generates and plots the titration curve of a weak monoprotic acid by a strong base. Equations used are valid for concentrations of acid or base.

"LSQ" performs least-squares linear regression on a set of data pairs (xi,yi), computing slope, intercept, and correlation coefficient, and displaying residuals in bar-graph form.

Price
$14.50

Huckel Molecular Orbitals

Application
Version 1.0
Chemistry

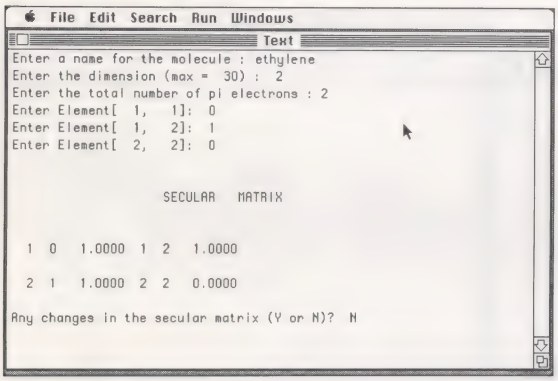
By John J. Farrell
Chemistry Department
Franklin and Marshall College

System Requirements

Macintosh computer, minimum 128K, with Finder, version 4.1 or earlier; printer.

Description

An application for calculating energy eigenvalues, eigenvectors and pi-electron charge densities using the assumptions of simple molecular orbital theory.



Huckel Molecular Orbitals calculates energy eigenvalues, eigenvectors, and pi-electron bond orders for conjugated and aromatic molecules using the assumptions of simple molecular orbital theory. It can be used to predict sites of electrophilic and nucleophilic attack, estimate bond strengths and bond lengths, predict sites of free radical attack and estimate oxidation and reduction potentials. The program requests a name for the compound, the dimension of the secular matrix (max =30), and the number of electrons and the value of each element in the secular matrix (h and k values).

The first page of output lists the name of the compound, the number of pi-electrons and all bonded atoms. A large rectangle is provided for drawing the lowest-energy resonance structure of the molecule and the numbering system used.

Pages two through five list the secular matrix, energy eigenvalues, coefficients of the eigenvectors, charge densities, and bond orders. Each of these parameters is useful for some chemical purpose.

This program has been used by students in junior-level and senior-level chemistry courses and by students and faculty engaged in research projects.

Price

$11.95

MacSimplex

Application
Version 1.62
Operations Research and Math

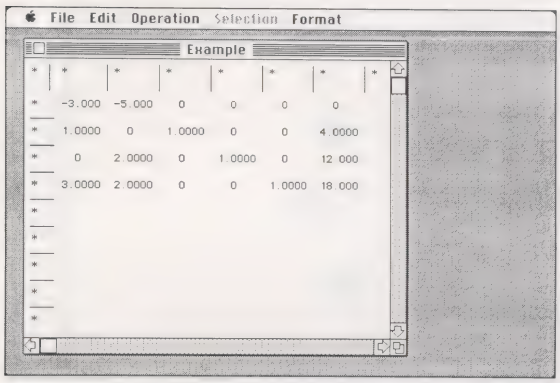
By John E. Doner
Mathematics Department
University of California at Santa Barbara

System Requirements

Macintosh computer, minimum 128K, with Finder, any version; word processing software program (MacWrite, Edit or File) and printer to print text files.

Description

A tool for students of linear programming and linear algebra.



MacSimplex is designed to teach how linear programming problems are solved. It is also useful for other topics in linear algebra. Using a Macintosh window-and-mouse-oriented user interface, a student can create, edit, and manipulate matrixes in matrix windows. With the mouse, the student can select portions of a matrix and choose menu commands to perform basic computational steps of matrix algebra, such as pivoting, matrix multiplication, component-wise addition, and identification of the minimum element within a selection.

The number and sizes of matrixes simultaneously represented on-screen is limited mainly by available memory. Scroll bars are used for matrixes too large to fit on the screen. A "recording" command enables a student to record each step for the purpose of preparing a homework assignment.

This program does not itself implement the simplex or any other problem-solving algorithm. In the author's experience, watching a "black box" program solve a problem on its own teaches little about the workings of an algorithm. MacSimplex makes the necessary computational steps easy and convenient, but leaves algorithm logic under user control.

Price

$11.95

MacVoice

Application
Version 1.0
Music Theory

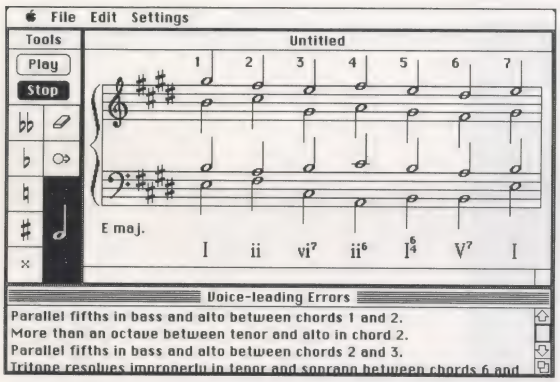
By M. Taft Thomas and P. Monta
Music Department
Carnegie Mellon University

System Requirements

Macintosh computer, minimum 128K, with Finder, any version. Does not currently work with Macintosh Plus.

Description

A program designed to assist music theory students in learning to write four-voice chorales, based on 17th and 18th century practices.



MacVoice is an interactive program that assists the user in writing four-part music. Designed as a tool for the student of traditional music theory, MacVoice provides instructive criticism whenever the user makes an error according to 18th century principles of good voice leading and preferred doubling.

Musical examples can be played during the process and printed, so that correct and incorrect versions can be heard, studied, and compared.

Price

$25.60

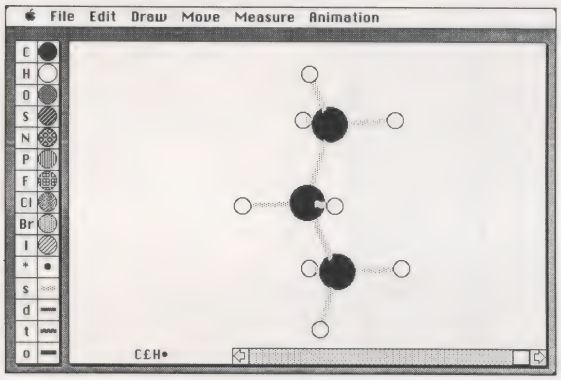
Molecular Editor

Application
Version 1.0
Chemistry

By Allan L. Smith
Chemistry Department
Drexel University

System Requirements
Macintosh computer, minimum 128K, with Finder, version 4.1.

Description
A software-based construction kit for building molecules, crystals, or other structures that can be represented by interconnected points or spheres in three-dimensions.



You can build or edit structures of over 100 atoms from any element in the periodic table. Three-dimensional versions of Cut, Copy, and Paste allow you to build any molecule from an initial collection of basic structures and functional groups. You can draw structures as all atoms and all bonds, atoms only, or bonds only; rescale the molecule, or independently rescale atomic radii while leaving bond lengths unchanged, allowing continuous variation from a touching-hard-sphere model to a bonds-only model; rotate a molecule through any angle about any of three orthogonal axes, either by single steps or continuously; and rotate or move a portion of a molecule with respect to another portion. Operations such as inversion and reflection through planes are available. You can measure the distance between any two atoms, the angle between any two bonds attached to the same atom, and the torsional angle about a bond; change the viewing angle; store and retrieve structures on disk; and open up to 20 files at one time and flip the display between them.

On a 512K Macintosh you can run through a sequence of open files rapidly using an animation feature. You can print the molecule in the active window directly from Molecular Editor. Sample files of organics, functional groups, inorganics, crystals, simple geometric shapes, and an animation of a chemical reaction in 3-D are included.

Price
$30.35

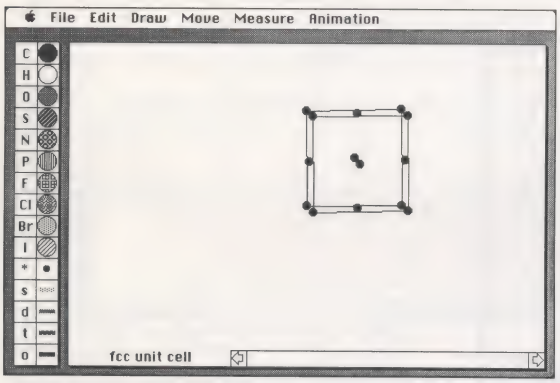
Molecular Editor Demo

Application
Version 1.0
Chemistry

By Allan L. Smith
Chemistry Department
Drexel University

System Requirements
Macintosh computer, minimum 128K, with Finder, version 4.1.

Description
Demonstration version of a 3-D molecular graphics program for creating and displaying models of molecules and crystals.



Molecular Editor Demo is a demonstration version of Molecular Editor (see previous entry), a software-based construction kit for building molecules, crystals, or other 3-D structures. Molecules containing any element in the periodic table can be built and edited on screen. Three-dimensional versions of Cut, Copy, and Paste allow you to modify any molecule with a collection of substructures or functional groups of your design. You can draw structures in various ways (ball and stick, wireframe, space-filling) and rotate a molecule through any angle about any axis. You can measure the distance between atoms, the angle between bonds, and the torsional angle about bonds. You can also change the perspective.

On a 512K Macintosh, you can animate a sequence of open files rapidly (five frames per second). The public domain version differs from the full version in that files created or modified cannot be saved, no printout is enabled, and a limit of 15 atoms per molecule is set. The disk contains the demonstration, a 40K help file, brief documentation, and six examples of molecules and crystals.

Price
$6.90

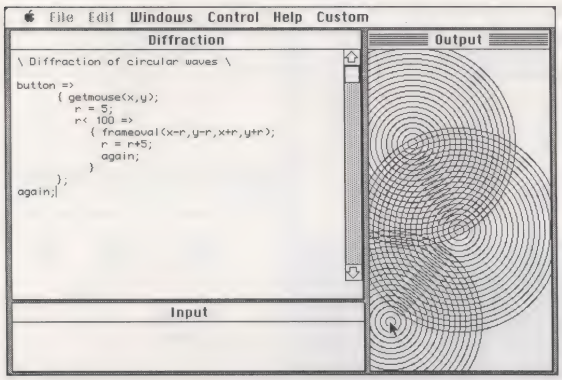
Problem Solving Interpreter

Tools
3/15/86
General Science and Math

By The Reed Development Laboratory
Reed College

System Requirements
Macintosh computer, minimum 128K, with Finder, version 4.1 or higher.

Description
A simple interpretive language designed specifically for problem solving, calculations and graphical modeling.



Problem Solving Intepreter (PSI) is ideal for college-level students, faculty, and researchers in the sciences, mathematics, and other fields requiring general statistical applications. PSI is a simple, structured programming language designed for direct solution of computation problems that arise in research and coursework. The instructional format is tutorial with an emphasis on solving particular problems. The number of lessons is variable. Examples of usage include structural engineering, number theory, Fast Fourier Transform, statistics, and graphical modeling. PSI has been used at Reed College and other universities as well as in private industry. Many sample applications are included on the disk.

Price
$20.25

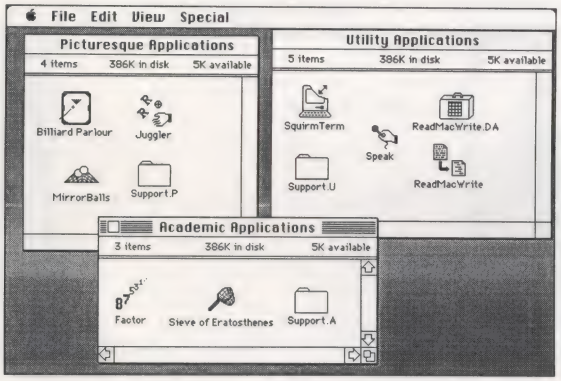
Reed Applications I

Tools
3/15/86
General Science / Math

By The Reed Development Laboratory
Reed College

System Requirements
Macintosh computer, minimum 128K, with Finder, version 4.1 or higher.

Description
Reed Applications I includes several utility, academic, and picturesque applications created with Rascal™ Development System.



This Reed Applications I is intended for a general college audience. The disk provides a wide variety of applications and tools including a terminal emulator, a MacWrite rescue utility, a speech synthesizer, mathematical programs for factoring and testing primality, the acclaimed Billiard Parlour, the Juggler, and a ray-tracing program that draws reflective balls over a checkerboard surface.

The instructional format is both demonstration and example. Many of these programs are being used at Reed College and universities and in private industry. A recent review of Billiard Parlour appeared in Mac User, April 1986.

Price
$13.80

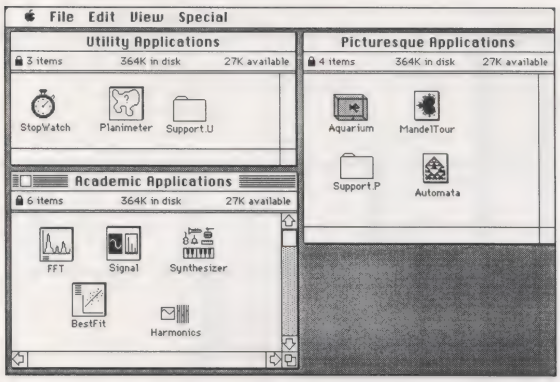
Reed Applications II

Applications
3/15/86
Math, Science, and Music

By The Reed Development Laboratory
Reed College

System Requirements
Macintosh computer, minimum 128K, with Finder, version 4.1 or higher.

Description
Utility, academic, and picturesque applications created with the Rascal Development System.



Reed Applications II is intended for college level users in the general sciences, social sciences and music. It has a wide variety of applications and tools, including a millisecond timer, planimeter for measuring the area of irregular regions such as cells, Fast Fourier Transform program, signal analysis program, musical instrument synthesizer (includes 17 instruments), a four-tone chord synthesizer, animation examples, cellular automata model, and Mandelbrot set.

The instructional format is problem solving, simulation, and demonstration.

Price
$13.80

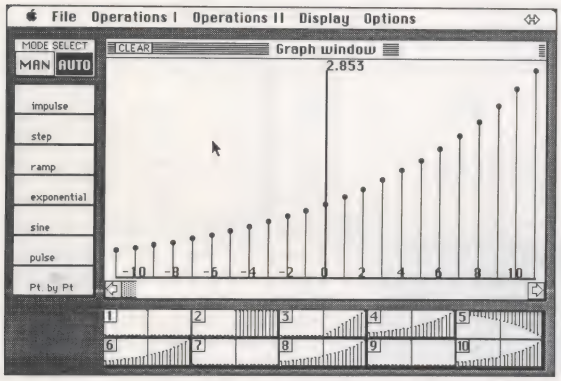
Signal Operations

Application
Version 1.0
Signals and Systems

By Banu Onaral
Electrical / Computer Engineering Department
Drexel University

System Requirements
Macintosh computer, minimum 128K, with Finder, version 4.1.

Description
An interactive, exploratory tool for experimenting with and visualizing theoretical and applied concepts in discrete signals and systems.



Signal Operations is the first module in a three-module package called Discrete Signals and Systems. The package is designed to provide students with an interactive environment in which to explore a multitude of theoretical and applied concepts in discrete signals and systems while routine computations and display tasks are performed by the computer.

With the Signal Operations module you can create discrete real signals on a working window and store them in any of ten on-screen "storage bins." Predefined signals (impulse, step, ramp, exponential, sinusoid, and rectangular pulse) can be generated, or signals can be created point by point. After one or more signals are generated, the following operations can be performed: time shifting, time scaling, amplitude scaling, rotating about x-axis, rotating about y-axis, absolute value, sum, summation, difference, even part, odd part, logarithm, exponentiation, addition, subtraction, multiplication, division, convolution, and correlation. Generated signals can be saved on the disk and accessed by other programs in the Discrete Signals and Systems package.

Price
$24.85

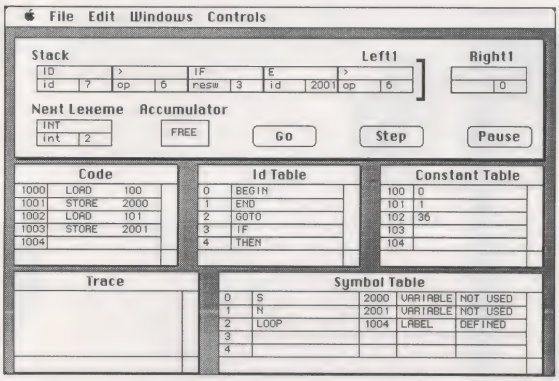
The SmallGol Compiler

Application
Version 1.0
Computer Science

By Prof. Thomas A. Standish
Computer Science Department
University of California at Irvine

System Requirements
Macintosh computer, minimum 128K, with Finder, version 4.1.

Description
An animated compiler that displays animated, dynamic pictures, which reveal how a compiler works.



SmallGol is an animated educational compiler for a tiny programming language. When SmallGol is running, it can display several windows. These windows can be individually scrolled, resized, and repositioned to create different displays convenient for watching how separate parts of the compiler work. A control panel allows users to set the compiler speed and to isolate various subsystems of the compiler for study. After the subsystems have been understood in isolation, interactions between the subsystems can be studied to acquire an understanding of how the whole compiler works. There are controls for tracing, stopping, and stepping (using a "Step" button that advances the action one step at a time). This enables the fine-grain details of each subsystem to be studied at leisure.

A manual accompanying the SmallGol disk provides a complete explanation of how SmallGol works. The disk also contains MiniAda, a slightly richer animated compiler which the student is challenged to run and understand after SmallGol has been mastered. Finally, the disk contains SmallEdit, a text editor for creating SmallGol and MiniAda programs.

Price
$16.10

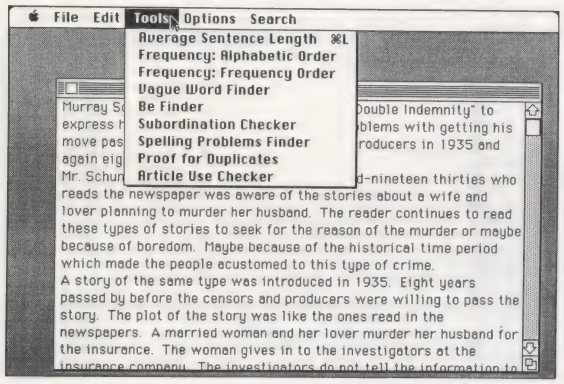
Tools for Writers™

Application
Version 1.1
English Composition

By Eva M. Thury
English Department
Drexel University

System Requirements
Macintosh computer, minimum 128K, with Finder, version 1.1 or higher.

Description
Tools for Writers allows students to perform checks and diagnostic tests on their own writing.



Tools for Writers allows students to perform checks and diagnostic tests on their own writing. It shows students' errors and problems in grammar and usage. In addition, it helps students with paragraphing, diction, subordination, and the use of the passive voice. It also finds problems with spelling, usage, and grammar.

Tools for Writers is not a single drill or exercise. It can be used in a variety of ways to help writers develop and refine their writing. Students can use it with or without an instructor.

Tools comes with a series of eight lessons which can be assigned to individual students who would benefit from them, or which can form the basis of a composition course. These lessons direct students to use Tools to locate and correct writing problems. The lesson titles are Writing Stronger Paragraphs; Focusing on your Topic; Eliminating Weak Verbs; Avoiding Vague Words; Cleaning your Writing of Extra, Empty Words; Using Strong Verbs; and Writing More Interesting Sentences. Each lesson explains a writing problem, shows how to use Tools to locate occurrences of that problem, and gives examples of problem sentences and revisions that improve them.

Price
$16.85

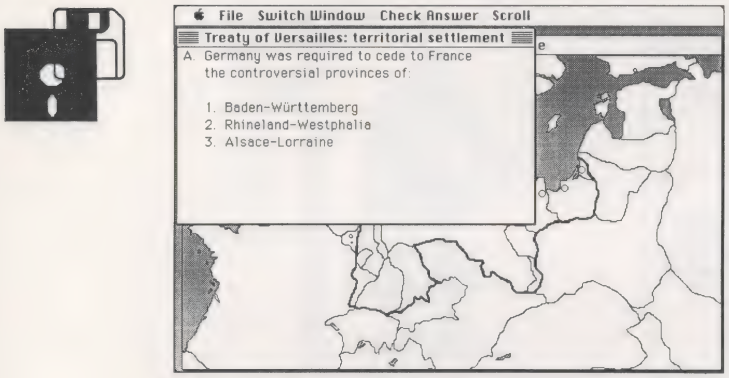
Treaty of Versailles

Application
Version 1.0
History

By Eric D. Brose
History and Politics Department
Drexel University

System Requirements
Macintosh computer, minimum 128K, with Finder, version 4.1.

Description
A series of exercises to help students understand the main problems confronting the diplomats who drafted the treaties ending World War I.



Treaty of Versailles consists of a series of exercises to help students understand the main problems confronting the diplomats who drafted treaties ending World War I. Exercise I has two parts. The first part is an exercise in which students redraw the map of Europe using national, ethnic, historical, and other relevant information they have studied. The second part of this exercise is a classroom simulation of a delegation meeting at the Versailles Conference. The purpose of the meeting is to form a consensus as to how the political boundaries in Europe should be redrawn. Individual students must argue in favor of their own strategies, as shown in the maps they produced.

Exercise II consists of a series of questions about the territorial, disarmament, and reparation terms of four treaties: Versailles, St. Germain, Trianon, and Neuilly. Questions about territorial shifts are followed by questions that require locating the areas in question on a map. Students receive feedback on both correct and incorrect answers.

Price
$15.65

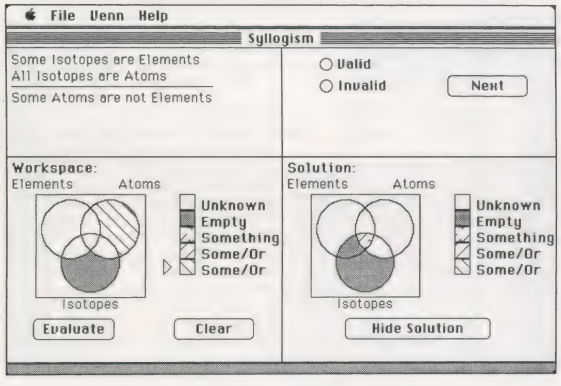
Venn–A Philosophy Tutor

Application
Version 2.0
Philosophy

By Richard Wesley: Developer
Jim Moor (Philosophy Dept.): Concept
Courseware Development Group
Dartmouth College

System Requirements
Macintosh computer, minimum 128K, with Finder, any version.

Description
A program used for teaching the solution of logical syllogisms with Venn diagrams.



Venn is used for teaching syllogisms and Venn diagrams in introductory philosophy courses. It allows the students who know about syllogisms to practice solving them by using Venn diagrams. It offers practice with Venn diagrams on single logical sentences, single-sentence inferences, and full syllogisms (two premises and an inference).

Venn randomly makes up syllogisms and shows them. Using MacPaint-like filling of regions with patterns, the student represents the premises with a Venn diagram. The program checks the diagram, and the student indicates whether he or she believes the syllogism to be valid or invalid. The program then tells whether the student is correct or not.

Price
$6.90

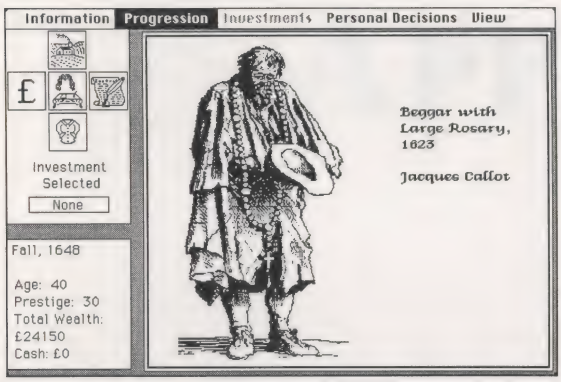
The Would-Be Gentleman

Application
Version 4.1
History

By Carolyn Lougee
Faculty Author Development
Stanford University

System Requirements
Macintosh computer, minimum 128K, with Finder, version 4.1.

Description
A simulation of social mobility in the France of King Louis XIV.



The Would-Be Gentleman was developed as an instructional tool for a seminar entitled "The France of Louis XIV." The program models the economic and social life of a French bourgeois during the life and reign (1638-1715) of Louis XIVof France. The scenario is briefly introduced to the player, who then embarks on an ambitious plan of economic and social decision-making. The player experiences the world of 17th century France by managing income and properties, planning marriages and estates, and seeking influence through official duties and alliances with powerful figures.

Price
$7.00

APPLE

Animated Waves and Particles

Application
Version 1.3
Science Education

By Dr. Eric T. Lane
Physics Department
University of Tennessee

System Requirements
Apple II computer, with DOS 3.0 and Applesoft.

Description
Animated simulation of wave and pulse behavior, motion of ideal gas, particles, electrons, and electron waves.

Animated demonstrations include the following: standing waves, traveling pulses and group velocity, doppler effects for sound and light; kinetic theory of the effects of temperature, pressure, and gravity on an ideal gas; a simulation of Maxwell's demon; the diffusion of molecules through a small opening; free diffusion; electron motion in a wire and in a magnetic field; and electron waves around an atom. This program can be used in secondary and college science classes, as well as introductory and advanced physics classes. It can also be used as a demonstration, as a supplement to laboratory work, and as an extra activity for advanced individuals or small groups. No programming or special training required.

Price
$6.90

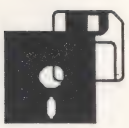
Mastering Statistics with Spreadsheets

Template
Version 1.0
Research and Statistics Courses

By Dr. Jeffrey M. Jacques
Sociology Department
Florida A & M University

System Requirements
Apple II computer, minimum 64K, with DOS 3.3 or minimum 128K with ProDos; two disk drives; spreadsheet software.

Description
A template for students, faculty and staff who are interested in mastering electronic spreadsheets and statistics/data analysis.



Mastering Statistics with Spreadsheets is an eleven-lesson series designed to help the user master two important academic tools: Statistical techniques and spreadsheets. It will help the user to master the basic analytic statistical techniques most often used by scientists, engineers, physicians, administrators, educators, and other professionals. It closely examines each of the major statistical concepts and procedures, including simple descriptive statistics, basic approaches to analyzing two or more variables, and conceptual, meaningful computational strategies for inferential statistics.

Emphasis, however, is placed on mastering one of the most important microcomputer software products, electronic spreadsheets. It shows how each statistical tool can be effectively implemented with an electronic spreadsheet software package of the user's choice. It also points out some of the basic and advanced application techniques that may be developed when using such software. The computer does the arithmetic while the user concentrates on the meaning of statistical concepts, ways they can be used, and methods of using them effectively.

Price
$17.50

TouchType

Tool
Version 1.0
Typing

By Dr. J. Wood and Dr. A. Thompson
University of California at Berkeley

System Requirements
Apple II computer, minimum 64K, with DOS 3.3.

Description
A tool for beginning typists and typists wishing to improve their typing speed and accuracy.

Touch Type is easy to use and gives the learner control over a variety of learning activities. It comprises two programs: Beginning and Advanced Touch Type. Both possess many special features in addition to the following: percentage accuracy reports, custom lessons (specialized business applications, other languages, hardware-specific keys, bridges to word-processing software), lesson selector, speed testing, multilevel typing games, and variable on-screen help messages.

On the screen a keyboard is displayed with two hands underneath. Both the keyboard and the hands are color coded. The line of characters you are to type appears across the top of the screen. As you type, both the character to be typed and the correct finger flash. When you correctly type the character, the next character and finger flash. Thus, you look at the screen to type correctly without looking down at the keyboard.

Price
$19.90

Trial Quiz

Tool
Version 1.0
General Use

By Dr. Stephen L. Lowe
Chemistry Department
Minot State College

System Requirements
Apple II computer, minimum 64K, with Applesoft BASIC, two disk drives needed for instructor.

Description
Programs for creating practice quizzes for students to use as a study aid.

.....

Instructors in any field can use Trial Quiz to create a practice multiple choice quiz with wrong-answer help messages for their students. When the computer is turned on, the quiz runs automatically. The questions are displayed; the user attempts to answer them; and help messages are displayed when the questions are answered incorrectly. The system is designed to be user friendly for students and for the instructor who creates the quizes.

All programs necessary to create and run quizes are included in this package.

Price
$22.70

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